

Title (en)
ADAPTIVE FADE MITIGATION

Title (de)
ADAPTIVE FADINGABMILDERUNG

Title (fr)
ATTÉNUATION DE GRADATION ADAPTATIVE

Publication
EP 3232585 A1 20171018 (EN)

Application
EP 17173467 A 20121102

Priority

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- US 201213664650 A 20121031
- EP 12191118 A 20121102

Abstract (en)
A satellite communications system comprising a Hub station and a plurality of terminals, the system is configured to utilize a FWD link and a RTN link in accordance with adaptation techniques for relevant transmission properties (e.g. modulation, coding, transmission power, etc.) and to use adaptive margins to ensure proper reception of transmitted information under various link conditions. Methods are presented for determining said adaptive margins in real time or substantially in real time, and for setting relevant transmission properties in accordance with the determined margins. Adaptive margins may be determined either directly or following the determining of a link state for each of the FWD link and the RTN link.

IPC 8 full level
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CPC (source: EP US)
H04B 7/18513 (2013.01 - EP US); **H04B 7/18543** (2013.01 - EP US)

Citation (applicant)

- US 6212360 B1 20010403 - FLEMING III ROBERT F [US], et al
- US 33733008 A 20081217
- US 2788708 A 20080207

Citation (search report)

- [A] WO 2008129509 A1 20081030 - SHIRON SATELLITE COMM 1996 LTD [IL], et al
- [A] US 4776035 A 19881004 - DUGGAN GERALD S [US]
- [A] WO 0018035 A1 20000330 - NOKIA MOBILE PHONES LTD [FI], et al
- [A] VAN DE KAMP M M J L: "Statistical analysis of rain fade slope", IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, IEEE SERVICE CENTER, PISCATAWAY, NJ, US, vol. 51, no. 8, 1 August 2003 (2003-08-01), pages 1750 - 1759, XP011099503, ISSN: 0018-926X, DOI: 10.1109/TAP.2003.808542

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